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June 21, 2013

Mr. Jeff Derouen

Executive Director

Public Service Commission of Kentucky

P.O. Box 615

211 Sower Boulevard

Frankfort, KY 40602-0615

In The Matter Of: Application of Big Rivers Electric Corporation For A

General Adjustment In Rates - Case No. 2012-00535

Dear Mr. Derouen:

Enclosed for filing are an original and ten (10) copies of Big Rivers Electric Corporation's updated responses to Ben Taylor and Sierra Club's Supplemental Requests for Information as required by the Public Service Commission's June 19, 2013, Order.

I certify that on this date, a copy of this letter and a copy of the updated responses were served on the persons listed on the attached service list by first class mail, postage prepaid, or by Federal Express.

Sincerely,

THE

Tyson Kamuf

cc:

Service List

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APPLICATION OF BIG RIVERS ELECTRIC CORPORATION FOR A GENERAL ADJUSTMENT IN RATES CASE NO. 2012-00535

VERIFICATION

I, Robert W. Berry, verify, state, and affirm that I prepared or supervised the preparation of the data responses filed with this Verification, and that those data responses are true and accurate to the best of my knowledge, information, and belief formed after a reasonable inquiry.

Robert W. Berry

COMMONWEALTH OF KENTUCKY)
COUNTY OF HENDERSON)

SUBSCRIBED AND SWORN TO before me by Robert W. Berry on this the 20 day of June, 2013.

Notary Public, Ky. State at Large My Commission Expires

Notary Public, Kentucky State-At-Large My Commission Expires: July 3, 2014 ID 421951

APPLICATION OF BIG RIVERS ELECTRIC CORPORATION FOR A GENERAL ADJUSTMENT IN RATES CASE NO. 2012-00535

VERIFICATION

I, Lindsay N. Barron, verify, state, and affirm that I prepared or supervised the preparation of the data responses filed with this Verification, and that those data responses are true and accurate to the best of my knowledge, information, and belief formed after a reasonable inquiry.

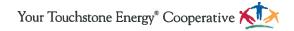
COMMONWEALTH OF KENTUCKY)
COUNTY OF HENDERSON)

SUBSCRIBED AND SWORN TO before me by Lindsay N. Barron on this the $2^{\frac{51}{2}}$ day of June, 2013.

Notary Public, Ky. State at Large My Commission Expires 8 - 9-2014

ORIGINAL





COMMONWEALTH OF KENTUCKY

BEFORE THE PUBLIC SERVICE COMMISSION OF KENTUCKY

In the Matter of:

APPLICATION OF BIG RIVERS)	
ELECTRIC CORPORATION FOR A)	Case No. 2012-00535
GENERAL ADJUSTMENT IN RATES)	

Responses to Item Nos. 2, 3, 4, 5, and 8 of Ben Taylor and the Sierra Club's Supplemental Request for Information dated May 6, 2013

FILED: June 24, 2013

ORIGINAL

APPLICATION OF BIG RIVERS ELECTRIC CORPORATION FOR A GENERAL ADJUSTMENT IN RATES CASE NO. 2012-00535

Response to Ben Taylor and Sierra Club's Supplemental Requests for Information Dated May 6, 2013

June 24, 2013

1	Item 2) See BREC response to SC DR 1-7. "Big Rivers' operating plan consists of
2	the current year budget and a three year financial plan; therefore, we can only provide
3	2013 through 2016 for this request"
4	a. Does the Company do any modeling or planning beyond the three year
5	horizon?
6	i. If so, describe what modeling and planning is performed beyond
7	the three year horizon, and produce the results of the most recent
8	modeling or planning run by or for the Company.
9	ii. If not, describe why the Company expects that it is reasonable or
10	prudent to only review three years of forward looking costs.
11	b. Does the Company run, have run on its behalf, production cost
12	modeling that extends beyond a three year horizon?
13	i. If so, identify the year to which production cost modeling is
14	performed, and produce the results of the most recent production
15	cost modeling run by or for the Company.
16	ii. If not, describe in detail why the Company expects that it is
17	reasonable or prudent to only review three years of forward
18	looking costs.
	Case No. 2012-00535

Response to SC 2-2
Witness: Robert W. Berry
Page 1 of 4

APPLICATION OF BIG RIVERS ELECTRIC CORPORATION FOR A GENERAL ADJUSTMENT IN RATES CASE NO. 2012-00535

Response to Ben Taylor and Sierra Club's Supplemental Requests for Information Dated May 6, 2013

June 24, 2013

1	c. If the Company only projects off system sales revenues through 2016,
2	please explain how the Company can be sure that off system sales
3	revenues will recover/improve in the future.
4	d. See BREC response to PSC 2-21(c): "Big Rivers' current long term
5	financial model indicates Wilson Station will restart in 2019."
6	i. Please provide any and all evidence that, if idled, Wilson Station
7	will restart in 2019. If such evidence has already been provided,
8	please indicate reference to workbook.
9	ii. Please explain how the Company is able to predict a restart in
10	2019 if its operating plan projections only go out to 2016.
11	Response) Big Rivers objects to this request on the grounds that it is overbroad, unduly
12	burdensome, and not reasonably calculated to lead to the discovery of admissible evidence.
13	Notwithstanding these objections, but without waiving them, please see Big Rivers' fifteen
14	(15) year Production Cost Model ("PCM") runs for years 2013 - 2027 on the accompanying
15	CD which has been submitted under petition for confidential treatment.
16	a. Yes
17	i. Big Rivers has performed 15 year production cost model runs to
18	forecast when the idled unit will be cost effective to return to service.

Case No. 2012-00535 Response to SC 2-2 Witness: Robert W. Berry Page 2 of 4

APPLICATION OF BIG RIVERS ELECTRIC CORPORATION FOR A GENERAL ADJUSTMENT IN RATES CASE NO. 2012-00535

Response to Ben Taylor and Sierra Club's Supplemental Requests for Information Dated May 6, 2013

1		The production cost model runs do not include any fixed costs, only
2		the variable costs of operating. Please see the accompanying CD
3		which has been submitted under petition for confidential treatment for
4		the five (5), fifteen (15) year production cost model runs listed below.
5		1. Base Case – All units operating, Century not operating, 4%
6		discount in power prices
7		2. Sens. 1 – All units operating, Century operating with Big
8		Rivers providing power
9		3. Sens. 2 – Coleman Station idled, Century not operating
10		4. Sens. 3 – Wilson Station idled, Century not operating
11		5. Sens. 4 - All units operating, Century operating with
12		market power, same power prices as Sens. 1 through Sens.
13		3
14		ii. Not applicable
15	b. Yes	
16		i. Please see response to a. subpart i. above.
17		ii. Not applicable

APPLICATION OF BIG RIVERS ELECTRIC CORPORATION FOR A GENERAL ADJUSTMENT IN RATES CASE NO. 2012-00535

Response to Ben Taylor and Sierra Club's Supplemental Requests for Information Dated May 6, 2013

1	C.	The 15 year production cost mode	runs do provide projections for off system sales
2		revenues.	
3	d.	Please see below	
4		i. As stated in a. subp	art i. above, production cost model runs only
5		provide the variable	operating costs. Fixed costs are evaluated in Big
6		Rivers' financial me	odel. Production cost model runs Sens. 3 – Wilson
7		idled and Sens. 4 -	All Running were evaluated in Big Rivers'
8		financial model. The	arough this evaluation, it was determined Wilson
9		would restart in 201	9. Please see the accompanying CD which has
10		been submitted und	er petition for confidential treatment for Big
11		Rivers' financial me	odel results.
12		ii. Please see response	to d. subpart i. above.
13			
14	Witne	ess) Robert W. Berry	

APPLICATION OF BIG RIVERS ELECTRIC CORPORATION FOR A GENERAL ADJUSTMENT IN RATES CASE NO. 2012-00535

Response to Ben Taylor and Sierra Club's Supplemental Requests for Information Dated May 6, 2013

1	Item 3)	For	each of the Company's generating units, for the years 2013-2030, if the
2	Company mo	aintair	ns any records or information for the purposes of modeling, forecasting,
3	or other reso	urce p	planning, please provide the following information, on an annual basis:
4		a.	Non-environmental capital expenditures,
5		b.	Capital expenditures for pollution controls,
6		c.	Generation,
7		d.	Variable operating costs,
8		e.	Fixed operating costs,
9		f.	Fuel costs,
10		g.	Heat rate,
11		h.	Capacity factor,
12		i.	EFOR, and
13		j.	Emission allowance expenditures.
14	Response)	Big	Rivers objects to this request on the grounds that it is overbroad, unduly
15	burdensome,	and n	ot reasonably calculated to lead to the discovery of admissible evidence.
16	Notwithstand	ling th	ese objections, but without waiving them, please see the accompanying
17	CD which ha	s been	submitted under petition for confidential treatment for Big Rivers'

APPLICATION OF BIG RIVERS ELECTRIC CORPORATION FOR A GENERAL ADJUSTMENT IN RATES CASE NO. 2012-00535

Response to Ben Taylor and Sierra Club's Supplemental Requests for Information Dated May 6, 2013

June 24, 2013

1	respon	nse to this response for years 2013 - 2027 based on its fifteen (15) year Production Cost		
2	Model ("PCM") runs. Big Rivers does not include capital expenditures or fixed operating			
3	costs	in its PCM. The replies to items a, b, and e are taken from Big Rivers 2013 - 2016		
4	appro	ved budget on which this instant filing is based.		
5	a.	Please see Big Rivers' [CONFIDENTIAL] response to SC1-25 for the 2013-2016		
6		non-environmental capital expenditure budgets.		
7	b.	Please see Big Rivers' [CONFIDENTIAL] response to SC1-25 for the 2013-2016		
8		pollution controls capital expenditure budgets.		
9	c.	Please see the accompanying CD which has been submitted under petition for		
10		confidential treatment for Big Rivers 2013-2027 unit generation. Refer to the file		
11		entitled "SC 2-3 (c,d,f-j) (Berry)(Attachment)(CONFIDENTIAL)(v 2013 05 22		
12		LVB).xlsx".		
13	d.	Please see the accompanying CD which has been submitted under petition for		
14		confidential treatment for Big Rivers 2013-2027 unit variable operating costs. Refer		
15		to the file entitled "SC 2-3 (c,d,f-j) (Berry)(Attachment)(CONFIDENTIAL)(v 2013		
16		05 22 LVB).xlsx".		
17	e.	Please see Big Rivers' [CONFIDENTIAL] response to SC1-25 for the 2013-2016		

fixed operating budgets.

18

Case No. 2012-00535 Response to SC 2-3 Witness: Robert W. Berry Page 2 of 4

APPLICATION OF BIG RIVERS ELECTRIC CORPORATION FOR A GENERAL ADJUSTMENT IN RATES CASE NO. 2012-00535

Response to Ben Taylor and Sierra Club's Supplemental Requests for Information Dated May 6, 2013

June 24, 2013

1	f.	Please see the accompanying CD which has been submitted under petition for
2		confidential treatment for Big Rivers 2013-2027 unit fuel costs. Refer to the file
3		entitled "SC 2-3 (c,d,f-j) (Berry)(Attachment)(CONFIDENTIAL)(v 2013 05 22
4		LVB).xlsx".
5	g.	Please see the accompanying CD which has been submitted under petition for
6		confidential treatment for Big Rivers 2013-2027 unit heat rates. Refer to the file
7		entitled "SC 2-3 (c,d,f-j) (Berry)(Attachment)(CONFIDENTIAL)(v 2013 05 22
8		LVB).xlsx".
9	h.	Please see the accompanying CD which has been submitted under petition for
10		confidential treatment for Big Rivers 2013-2027 unit net capacity factor. Refer to the
11		file entitled "SC 2-3 (c,d,f-j) (Berry)(Attachment)(CONFIDENTIAL)(v 2013 05 22
12		LVB).xlsx".
13	i.	Please see the accompanying CD which has been submitted under petition for
14		confidential treatment for Big Rivers 2013-2027 unit EFOR. Refer to the file entitled
15		"SC 2-3 (c,d,f-j) (Berry)(Attachment)(CONFIDENTIAL)(v 2013 05 22 LVB).xlsx".
16	j.	Please see the accompanying CD which has been submitted under petition for
17		confidential treatment for Big Rivers 2013-2027 unit emission costs. Refer to the file

Case No. 2012-00535 Response to SC 2-3 Witness: Robert W. Berry Page 3 of 4

APPLICATION OF BIG RIVERS ELECTRIC CORPORATION FOR A GENERAL ADJUSTMENT IN RATES CASE NO. 2012-00535

Response to Ben Taylor and Sierra Club's Supplemental Requests for Information Dated May 6, 2013

1	entitle	ed <u>"SC 2-3</u>	(c,d,f-j)	(Berry)(A	ttachmen	t)(CON	FIDENT	IAL)(v	2013	05	22
2	<u>LVB</u>)	.xlsx".									
3											
4	Witness)	Robert W.	Berry								

APPLICATION OF BIG RIVERS ELECTRIC CORPORATION FOR A GENERAL ADJUSTMENT IN RATES CASE NO. 2012-00535

Response to Ben Taylor and Sierra Club's Supplemental Requests for Information Dated May 6, 2013

1	Item 4) See BREC response to SC 1-21(e). Please provide the ACES forecasts for
2	the following variables on an annual basis for the electricity market in MISO and PJN
3	(separately) from 2013-2030. Specify if in constant or nominal dollars, and dollar year.
4	a. Capacity market prices,
5	b. On peak energy prices,
6	c. Off peak energy prices, and
7	d. Annual energy prices.
8	Response) Big Rivers objects to this request on the grounds that it is overbroad, unduly
9	burdensome, and not reasonably calculated to lead to the discovery of admissible evidence.
10	Notwithstanding these objections, but without waiving them, please see the accompanying
11	CD which has been submitted under petition for confidential treatment for Big Rivers' fifteen
12	(15) year Production Cost Models for years 2013 - 2027.
13	a. No capacity price was assumed in years 2013-2027 in the production cost
14	models.
15	

APPLICATION OF BIG RIVERS ELECTRIC CORPORATION FOR A GENERAL ADJUSTMENT IN RATES CASE NO. 2012-00535

Response to Ben Taylor and Sierra Club's Supplemental Requests for Information Dated May 6, 2013

1		b.	- d. The ACES forecasted market prices for on peak and off peak energy are
2			shown in the file entitled "SC 2-2 (Berry)(Attachment) (Big Rivers 2013-2027)
3			Budget Exhibits - Base Case)(CONFIDENTIAL)(v 11xlsx" on the
4			CONFIDENTIAL CD accompanying these responses. Please refer to the tab
5			labeled "Prices". Big Rivers did not use PJM prices in its analysis, as Big
6			Rivers is a MISO market participant and does not currently have transmission
7			access to the PJM market. Big Rivers used the same forecasted market prices
8			in all five (5) of the sensitivity model runs.
9			The prices utilized in the production cost model are in nominal dollars.
10			
l1	Witness)		Robert W. Berry
וח			

APPLICATION OF BIG RIVERS ELECTRIC CORPORATION FOR A GENERAL ADJUSTMENT IN RATES CASE NO. 2012-00535

Response to Ben Taylor and Sierra Club's Supplemental Requests for Information Dated May 6, 2013

1	Item 5)	Provide BREC's assumptions for the following variables on an annual basis
2	from 2013-20	30. Specify if in constant or nominal dollars, and dollar year.
3		a. Natural gas prices at Henry Hub;
4		b. Natural gas prices, delivered to BREC; and
5		c. Coal prices delivered to each of BREC's coal-fired assets.
6	Response)	Big Rivers does modeling and planning beyond the four years covered by the
7	2013-2016 bu	dget and financial plan. However, this case is based upon Big Rivers' 2013-
8	2016 budget a	and financial plan, and Big Rivers objects to providing modeling beyond that
9	timeframe on	the grounds that the request is overly broad, unduly burdensome, and not
10	reasonably cal	lculated to lead to the discovery of admissible evidence. Notwithstanding these
11	objections, bu	t without waiving them, please find the requested information, provided in
12	electronic form	nat, on the accompanying CD which is filed under petition for confidential
13	treatment.	
14	a.	The ACES forecasted market prices for natural gas at Henry Hub are shown
15		on the accompanying CD which is filed under petition for confidential
16		treatment. Please refer to the file entitled "SC 2-5(a-c) (Berry) (Attachment)
17		(CONFIDENTIAL) (V 2013 05 22 LVB) .xlsx".

APPLICATION OF BIG RIVERS ELECTRIC CORPORATION FOR A GENERAL ADJUSTMENT IN RATES CASE NO. 2012-00535

Response to Ben Taylor and Sierra Club's Supplemental Requests for Information Dated May 6, 2013

1	b.	The prices for natural gas delivered to Big Rivers are shown on the
2		accompanying CD which is filed under petition for confidential treatment.
3		Please refer to the file entitled "SC 2-5(a-c) (Berry) (Attachment)
4		(CONFIDENTIAL) (V 2013 05 22 LVB) .xlsx".
5	c.	The prices for coal delivered to each of Big Rivers' coal fired assets are
6		shown on the accompanying CD which is filed under petition for confidential
7		treatment. Please refer to the file entitled "SC 2-5(a-c) (Berry) (Attachment)
8		(CONFIDENTIAL) (V 2013 05 22 LVB) .xlsx".
9	The p	rices utilized in the production cost models are in nominal dollars.
10		
11	Witness)	Robert W. Berry

APPLICATION OF BIG RIVERS ELECTRIC CORPORATION FOR A GENERAL ADJUSTMENT IN RATES CASE NO. 2012-00535

Response to Ben Taylor and Sierra Club's Supplemental Requests for Information Dated May 6, 2013

1	Item 8)	For BREC as a whole, for the years 2013-2030, provide the expected or		
2	modeled:			
3		a. Contractual energy purchases from bilateral or fixed contracts in		
4		MWh and dollars;		
5		b. Spot market energy purchases from an RTO in MWh and dollars;		
6		c. Contractual energy sales to internal load in MWh and dollars;		
7		d. Contractual energy sales to external parties in MWh and dollars;		
8		e. Spot market energy sales to an RTO in MWh and dollars;		
9		f. Please describe the scenario used to generate the above values (i.e.		
10		which units are assumed in service, which smelters are assumed to		
11		have contracts in force).		
12	Response)	Big Rivers objects to this request on the grounds that it is overbroad, unduly		
13	burdensome, and not reasonably calculated to lead to the discovery of admissible evidence.			
14	Notwithstanding these objections, but without waiving them, please see the accompanying			
15	CD which has been submitted under petition for confidential treatment for Big Rivers' fifteen			
16	(15) year Production Cost Models for years 2013 - 2027. The prices utilized in the production			
17	cost model are in nominal dollars.			

APPLICATION OF BIG RIVERS ELECTRIC CORPORATION FOR A GENERAL ADJUSTMENT IN RATES CASE NO. 2012-00535

Response to Ben Taylor and Sierra Club's Supplemental Requests for Information Dated May 6, 2013

June 24, 2013

1	a)	Contractual energy purchases are shown in the file labeled <u>"SC 2-2</u>
2		(Berry) (Attachment) (Big Rivers 2013-2027 Budget Exhibits - Sens 3
3		Sens 4 Hybrid used for Finl.xls" on the accompanying CD which has
4		been submitted under petition for confidential treatment. Please refer
5		to the tab labeled "Annual Sources and Uses", lines 53 and 70 labeled
6		"SEPA" and "SEPA Demand".
7	b)	Spot market energy purchases are shown in the file labeled "SC 2-2
8		(Berry) (Attachment) (Big Rivers 2013-2027 Budget Exhibits - Sens 3
9		Sens 4 Hybrid used for Finl.xls" on the accompanying CD which has
10		been submitted under petition for confidential treatment. Please refer
11		to the tab labeled "Annual Sources and Uses", lines 54 and 72 labeled
12		"MKT Purchases" and "MKT".
13	c)	Contractual Energy Sales Volumes to Internal Loads are shown in the
14		file labeled "SC 2-2 (Berry) (Attachment) (Big Rivers 2013-2027
15		Budget Exhibits - Sens 3 Sens 4 Hybrid used for Finl.xls" on the
16		accompanying CD which has been submitted under petition for
17		confidential treatment. Please refer to the tab labeled "Annual Sources
18		and Uses", lines 59 and 60. Contractual Energy Sales Revenues to

Case No. 2012-00535 Response to SC 2-8 Witness: Lindsay N. Barron Page 2 of 3

APPLICATION OF BIG RIVERS ELECTRIC CORPORATION FOR A GENERAL ADJUSTMENT IN RATES CASE NO. 2012-00535

Response to Ben Taylor and Sierra Club's Supplemental Requests for Information Dated May 6, 2013

1			Internal Loads are shown in the file labeled "SC 2-2 (Berry) (Big
2			Rivers Finlxls" on the accompanying CD which has been submitted
3			under petition for confidential treatment. Please refer to the tab labeled
4			"Stmts RUS", lines 193, 194, 245, and 246.
5		d)	N/A
6		e)	Spot market energy sales are shown in the file labeled "SC 2-2 (Berry)
7			(Big Rivers Financial Model 2012- 2025) (CONFIDENTIAL) (v 01-
8			31-2013)(3).xlsx" on the accompanying CD which has been submitted
9			under petition for confidential treatment. Please refer to the tab
10			labeled "Stmts RUS", lines 11 and 196.
11		f)	The scenarios used to generate the referenced values are identified in
12			Big Rivers' responses to sub-parts a - e above.
13			
14	Witness)	Lindsa	y N. Barron
15			